FIG. 13 A (i)

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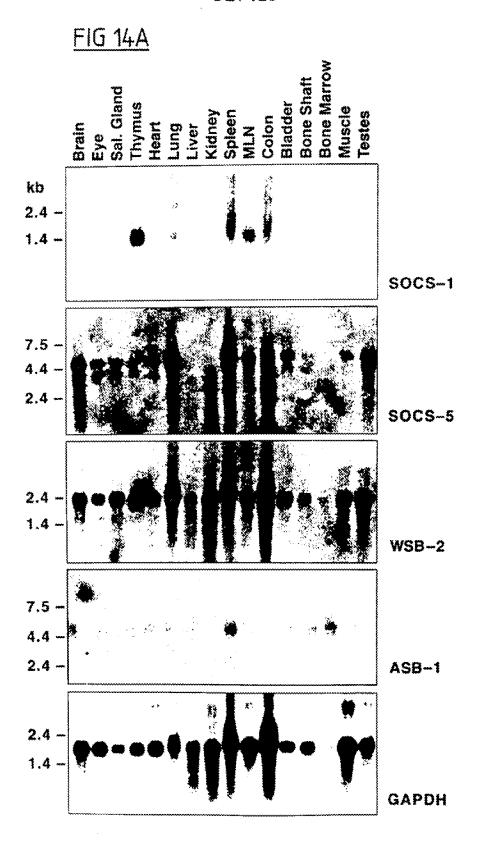
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FIG. 13 F (i)

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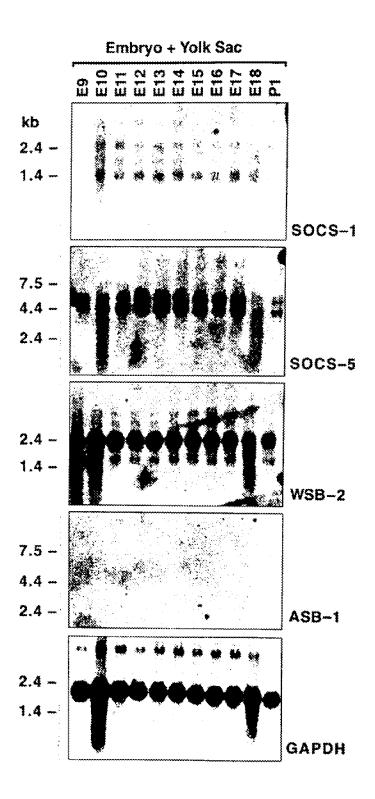
1.1



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FIG 14B

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FIG 15(I)

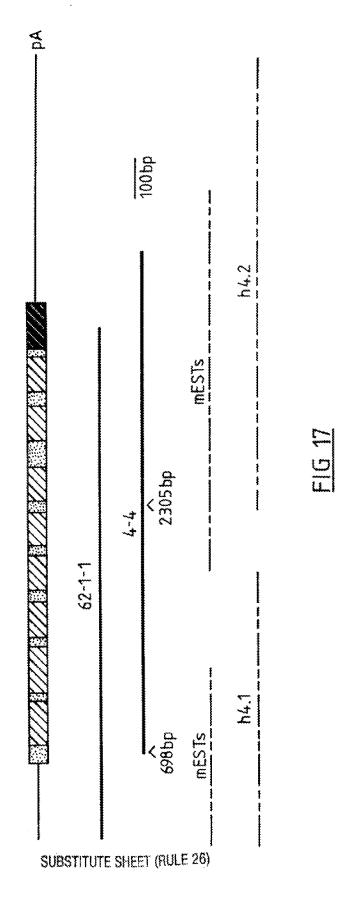
FIG 15(II)

FIG 15(I)

gecegegteaegeceteageceeegetgagtecettetetgttgtegegteegaate cgaatteegggeeggetgtgtgagtetgtgagtgaagtggaaggegeeggetettttgtet gagtgtgtgacccggtggctttgttccaggcattccggtgatttcctccgggcagtccgc gagttcccggaatcagacggtgccccatagATGGCCAGCTTTCCCCCGAGGGTTAACG AGAAAGAGATCGTGAGATCACGTACTATAGGGGGAACTCTTGGCTCCAGCAGCTCCTTT TTTGCGTGGTCACAAGGATATCGCATAGTGAAGCTTGTCCCGTGGTCCCAGTGCCGTA AGAACTTTCTTTTGCATGGTTCCAAAAAGTTACCAATTCAAGCTGTCTAAAATTGGC AAGACAAAACAGTAATGGTGGTCAGAAAAAACAAGCCTCCTGAGCACGTTATAGACTGT TCTCCcGACTGTTcTATGCTGTGTTCAGTgGGCGCCAGTAAAGCAGTTTTCCTTTGGA agaagccgcagcggccgccgcgctctctgcagtctccacaccccgggagagcctga TGACAAGAAATGTGGTGGTGAGAACTGGACGGTTGCTTTTGCTcCTGATGGTTCCTAC **GGAGACATAGTCTGGAGTCTTGCTTTTGGGTCTTCAGTTCCAGAAAAAAGAGTCGTT** GCGTTAATAAAAAIGGCATCGGTTCCGATTTGGACAGGATCAGCTACTCCTTGCCAC AGGATTAAACAATGGTCGCATCAAAATCTGGGATGTATATACAGGAAAACTCCTCCTT <u>AATTTGGTAGACCACATTGAAATGGTTAGAGATTTTAACTTTTGCTCCAGATGGGAGCT</u> TACTCCTTGTATCAGCTTCAAGAGACAAAACTCTAAGAGTGTGGGGACCTGAAAGATGA TGGAAACATGGTGAAAGTATTGCGGGCACATCAGAATTGGGtGtACAGTTGTGCATTC ATATGGATAAALACACCATGATTAGGAAGCLGGAAGGTCATCACCATGATGTTGTAGC TTGTGACTTTTCTCCTGATGGAGCATTGCTAGCTACTGCATCCTATGACACTCGTGTG AGAATCGATGAGGATTGTCCGGTACAAGTTGCACCTTTGAGCAATGGTCTTTGCTGTG CCTTTTTCTACTGATGGCAGTGTTTTAGCTGCTGGGACACATGATGGAAGTGTGTATTT TTGGGCCACTCCAAGGCAAGTCCCTAGCCTTCAACATATATGTCGCATGTCAATCCGA ITCTCTCCCACCCCCCGTTAGactgaagactgcctttcctggtaggcctgccagacaga <u> TATGTCTGGGATCCACACACATGGAGACCTTCTGATGGAGTTTGGGCACCTGTTTCCCT</u> CGCCCACTCCAATATTTGCTGGAGGAGCAAATGACCGATGGGTGAGAGCTGTGTCTTT CAGTCATGATGGACTGCATGTTGCCAGCCTTGCTGATGATAAAATGGTGAGGTTCTGG gegeeetttacaagacacacctcaagetttacctcgtgeegaatt

FIG 15(I

MASFPPRVNEKEIVRSRTIGELLAPAAPFDKKCGGENWTVAFAPDGSYFAWSQGYRIV KLVPWSQCRKNFLLHGSKNVTNSSCLKLARQNSNGGQKNKPPEHVIDCGDIVWSLAFG SSVPEKQSRCVNIEWHRFRFGQDQLLLATGLNNGRIKIWDVYTGKLLLNLVDHIEMVR DLTFAPDGSLLLVSASRDKTLRVWDLKDDGNMVKVLRAHQNWVYSCAFSPDCSMLCSV APLSNGLCCAFSTDGSVLAAGTHDGSVYFWATPRQYPSLOHICRMSIRRVMSTOFVOK GASKAVFLWNMDKYTMIRKLEGHHHDVVACDFSPDGALLATASYDTRVYVWDPHNGDL LMEFGHLFPSPTPIFAGGANDRWVRAVSFSHDGLHVASLADDKMVRFWRIDEDCPVQV LPVPSKILAFLSYRG\*



7S)0S

FIG 18(I)

FIG 18(II)

FIG 18 (III)

CTGTCTTCCTCCGCAGCGCGAGGCTGGGTACAGGGTCTATTGTCTGTGGTTGACTCCG

h4.1

TACTITIGGICTIGAGGCCTTCGGGAGCTTTCCCGAGGCAGTTAGCAGAAGCCGCAGCGA CCGCCCCCCCCGTCTCCTCTGTCCCTGGGCCCGGGAGACAAACTTGGCGTCACGCCC TCAGCGGTCGCCACTCTCTTCTCTGTTGTTTGGGTCCGCATCGTATTCCCGGAATCAGA CGGTGCCCCATAGATGGCCCAGCTTTCCCCCGAGGGTCAACGAGAAAGAGATCGTGAGA TCACGTACTATAGGTGAACTTTTAGCTCCTGCAGCTCCTTTTGACAAGAAATGTGGTC GTGAAAATTGGACTGTTGCTTCTTCCAGATGGTTCATACTTTGCTTGGTCACAAGG ACATOGCACAGTAAAGCTTGTTCCGTGGTCCCAGTGCCTTCAGAACTTTCTTGCAT GGCACCAAGAATGTTACCAATTCAAGCAGTTTTAAGATTGCCAAGACAAAATAGTGATG GTGGTCAGAAAAAAAACCCTCGTGACATATTATAGACTGTGGAGATATAGTCTGGAGT ATCGCTTCAGATTTGGACAAGATCAGCTACTTCTTGCTACAGGGTTGAACAATGGGCG TATICAAAATATIGGGATGTATATMCAGGAAACTCCTTCCTTAACTTGGTAGATCATACTG AAGTGGTCAGAGATTTAACTTTTGCTCCAG

FIG 18(I)

h4.2

AATATGGATAAATACACCATGATACGGAAACTAGAAGGACATCACCATGATGTGGTAG

CTTGTGACTTTTCTCCTGATGGAGCATTACTGGCTACTGCATCTTATGATACTCGAGT

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1G 18(II)

9 ATATATCTGGGATCCACATAATGGAGACATTCTGATGGAATTTGGGCACCTGTTTCCC GAGAATTGAGGATTATCCAGTGCAAGTTGCACCTTTGAGCAATGGTCTTTGCTGT GCCTTCTCTACTGATGGCAGTGTTTTAGCTGCTGGGACACATGACGGAAGTGTGTATT ITTGGGCCACTCCACGGCAGGTCCCTAGCCTGCAACATTTATGTCGCATGTCAATCCG A A G A G T G A T G C C C C C C A A G A G T T C A G C T G C C C C A T T C C A A G C T T T T G G A G CCACCTACTCCAATATTTGCTGGAGGAGCAAATGACCGGTGGGTACGATCTGTATCTT TTAGCCATGATGGACTGCATGTTGCAAGCCTTGCTGATGATAAATGGTGAGGTTCTG TITICITCITCGINATICGINATITIAGAAGATITCITGCCTITCCCIAGIAGIAGIAGGACTGACAGAA **TACACTTAACACAAACCTCAAGCTTTACTGACTTCAATTATCTGTTTTTTAAAGACGTA** GAAGATTTTATTTAATTTGTTCTTGTACTGCATTTTGATCAGTTGAGCTTTTAA AGAGCCACAATATGTATCTTTGCTGTAAAGTGCAAGGAAATTTTAAATTCTGGGACAC <u>AATATTATTATTAGACAATAGAAGTATTTCTGAACATATCAAATATAAATTTTTTAA</u> <u>AGATCTAACTGTGAAAACATACATACCTGTACATATTTAGATATAAGCTGCTATATATGT</u>

TGAGTTAGATGGTAAATACTGACTTACGAAAGTTGAATTTGGGTGAGGCGGGCAAATCA CCTGAGGTCAGCAGTTTGAGACTAGCCTGGCAAACATGATGAAACCTGTCTCTACTA AAAATACAAAAAAAAAA

FIG 18(III)

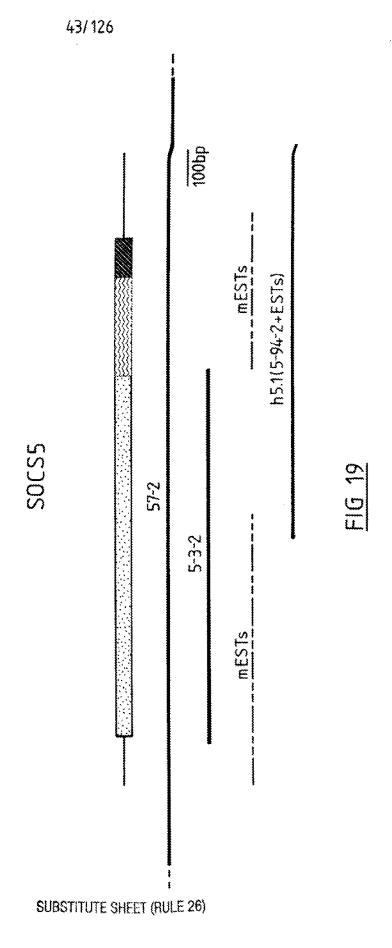


FIG 20A(I)

FIG 20A(II)

FIG 20A(III)

FIG 20A

T FIG 20A(I)

AGCGCCCTATGGAGTCAGCTCCATGCAGGACATGGACAGCGTTTTCTAGCCGCGGGT CGGGAGCCGCTCCCTGAGGCAGAGGCTCCAGGACACGGTGGGTTTGTGTTTTCCCATG 

CTCGCGGCACGCCCCGTGGGGAGGAAAGAAAAAAATTCCTGTTCCACAAAAAACAG

<u> AGTTCATTGGATACCGAGAAAAAGTTTGGTAGAACTCGAAGCGGCCTTCAGAGGCGAG</u>

ggaggacgggamgcgcgggggggggcgcgccctgtcgctgactgcgctgccccggcc catecttgectggccgcaggtgccctggatgaggccgccgcgcgtgtcccggccgctga gtgteceeegeggtegeeeggegeetgeeeteaageggeegeeteteettgeeegggte coogtiticocooggogoagicotocicoggiggogooicogoaccioggogoaggog gcacggccctcgggccgggatggatccgccgggaaggaggaagacaagccggggcgttga ttctaatcaATGGATAAAGTGGGGAAAATGTGGAACAACTTAAAATACAGATGCCAGAA ICTCTTCAGCCACGAGGGAGGAAGCCGTAATGAGAACGTGGAGATGAACCCCCAACAGAT GTCCGTCTGTCAAAGAGAAAAGCATCAGTCTGGGAGAGGCAGCTCCCCAGCAAGAGAG gecectgegeaeggtgeegeegegegtagtgggagettaettegeagtaggetetegete CAGTCCCTTAAGAGAAAATGTTGCCTTACAGCTGGGACTGAGCCCTTCCAAGACCTTT ICCAGGCGGAACCAAACTGTGCCGCAGAGATCCCTCAAGTGGTTGAAATCAGCATCG AGAAAGACAGTGACTCGGGTGCCACCCCAGGAACGAGGCTTGCACGGAGAGACTCCTA CTGAATTAATGCTGGAGAAATGCCCTTTTTCCTGCTGGCTCGGATTTAGCACAAAAGTG

GCATTTGATTAAACAGCATACCGCCCCTGTGAGCCCACACTCAACATTTTTTTAATACA

TTTGATCCATCACTGGTGTCTACAGAAGATGAAGATAGACTTAGGCTTCGCGAGAGAAGAC

AGCTACTGCACAGGTCAACCCATTGTATAAGCTGGGACCAAAGTTAGCTCCTGGGATG

GGCTTAGTATCGAAGAAGGGGTGGATCCCCTCCCAACGCACAAATACACACCTTTGA

**ACAGAGATAAGTGGAGATGGTTCTGCAATTCCACAAGCSAATTGTGACTCAGAAGAGG** 

ATTCAACCACCCTATGTCTGCAGTCACGGAGGCAGAAGCAGCGCCAGGTGTCCGGGGA

ATACACTGCCTCGTGCCAGATTTGCTTCAGATCACAGGGAATCCCTGTTACTGGGGCG

CAGCCACGCGCACGTTAGCAGACAGGGAGCTTGGAAAGTTCATACGCAGATCGATTAC

TGATGGACCGATACGAGGCCGAAGCCCTTCTAGAAGGGAAACCGGAAGGCACGTTCTT

GCTCAGGGACTCTGCACAGGAGGACTACCTCTTCTCTGTGAGCTTCCGCCGCTACAAC

AGGTCTCTGCACGCCCGGATCGAGCAGTGGAACCACAACTTCAGCTTCGATGCCCATG

ACCCCTGCGTGTTTCACTCCTCCACWGTCACGGGGCTTCTCGAACACTATAAAGACCC

CAGCTCTTGCATGTTTTTGAACCGTTGCTAACGATATCACTGAATAGAACTTTCCCT

TTCAGCCTGCAGTATATCTGCCGCGCAGTGATCTGCAGATGCACTACGTATGATGGGA

FIG 20A(II)

**ACAAAAAGTTAGGGTTCGCTGGTTAGAACGAGArcCAGTCAAAGCAAAGTAActcctg** tococaaagggcactaactaagtetgeteeteegtgcatemgaactgeaceatagg

TIGACGGGCTCCCGCTACCGTCGATGTTACAGGATTTTTTAAAAGAGTATCATTATAA

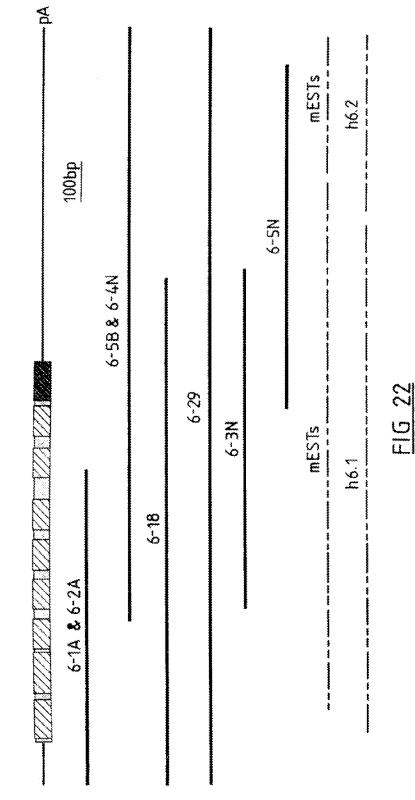
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FIG 20A(III)

MDKVGKMWNNLKYRCQNLFSHEGGSRNENVEMNPNRCPSVKEKSISLGEAAPQQESSP LRENVALQLGLSPSKTFSRRNQNCAAEIPQVVEISIEKDSDSGATPGTRLARRDSYSR HAPWGGKKKHSCSTKTQSSLDTEKKFGRTRSGLQRRERRYGVSSMQDMDSVSSRAVGS RSLRQRLQDTVGLCFPMRTYSKQSKPLFSNKRKIHLSELMLEKCPFPAGSDLAQKWHL IKQHTAPVSPHSTFFDTFDPSLVSTEDEEDRLRERRLSIEEGVDPPPNAQIHTFEAT AQVNPLYKLGPKLAPGMTEISGDGSAIPQXNCDSEEDSTTLCLQSRRQKQRQVSGDSH AHVSRQGAWKVHTQIDYIHCLVPDLLQITGNPCYWGVMDRYEAEALLEGKPEGTFLLR DSAQEDYLFSVSFRRYNRSLHARIEQMNHNFSFDAHDPCVFHSSXVTGLLEHYKDPSS CMFFEPLLTISLNRTFPFSLOYICRAVICRCTTYDGIDGLPLPSMLQDFLREYHYKQK VRVRWLERXPVKAK\*

GTGAGCTTCCGCCGATACAACAGATCCCTGCATGCCCGAATTGAGCAGTGGAATCACAACTTTAGTTTC CTACAGAAGATGAAGAAAATAGGCTTAGAGAGAGAAGACGCCTTAGTAGTTGAAGAAGGGGTTGATCCC CCTCCCAATGCACAAATACATATAGAAGCTACTGCACAGGTTAATCCATTATwTAAACTGGGACCA AAATTAGCTCCTGGAATGACTGAAATAAGTGGGGACAGTTCTGCAATTCCACAAGCTAATTGTGACTCG GAAGAGGATACAACCACCCTGTGyTTGCAGTCACGGAGGCAGAAGCAGCGTCAGATATCTGGAGACAGC CCTGATITGCTTCAAATTACAGGGAATCCCTGTTACTGGGGAGTGATGGACCGTTATGAAGCAGAAGCC GACGCCCATGACCCGTGTGTATTTCACTCCTCCACTGTAACGGGACTTTTAGAACATTATAAAGATCCCA GITICGIGCAIGITITITIGAACCAITIGCITIACIATAICACTAAATAGGACITITICCCITITIAGCCIGCAGIAI *TACAGGATTTTTTAAAAGAGTATCATTATAAACAAAAGTTAGAGTTCGCTGGTTGGAACGAGAACCAG* GTCAGAIGCTACCTGCTGTTACTTATTCAGATAAACATGGGCCTATTGGAACAATAG&GGATAGAGCTAC AGGIGITCAGTAAGACTACAAAAACATTTTGCCTATTTCGCTAACAGTTTGGTTTTTAATGGCTGTGGA GATTAAACAGCATACAGCTCCTGTGAGCCCACATTCAACATTTTTTGATACATTGATCCATCTTTGGTTT CTTCTCGAAGGGAAACCTGAAGGCACGTTTTTGCTCAGGGACTCTGCGCAAGAGGACTACTTCTTCT ATCT\_ST. GCGCGGTAATCTGCAGGTGCACTACGTATGATGGAATTGATGGCTCCCTCTACCCTCAATGT ACACCTATAGCAAGCACACGTAGCAGTGTTAGGCTTTTTCATACAGTATGTAAG5TTAGTGTTAGTATCT TCAAGGCAAAGTAAACTCTCCGGGTCCCCAAAGG§TGTTAACTAGGTCCGCTTTCATGTGCATCAGACAGT ITTGAGTGAGGCAACTCTGGGGCATTTGTTATGAAGAAATG



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FIG 23A (I)

FIG 23A(II)

FIG 23A(III)

FIG 23A

<u>AGGCCCACGGCCCTGGGGGCTGAGGCGCCCCCCCCTGGGGCGGCGGCCGCCGCGCGTCCTCA</u>

TGGAGGCCGGAGAGCCGCTGCTGCTGCTGAACTCAAGCCTGGGCGCCCCCACCA

GTTCGACTGGAAGTCAAGCTGCGAGACCTGGAGCGTGGCCTTCTCGCCAGACGGTTCC

TGGTTCGCCTGGTCTCAAGGACACTGCGTGGTCAAGCTGGTCCCCTGGCCCTTAGAGG

AACAGTTCATCCCTAAAGGATTCGAAGCCAAGAGCCGAAGCAGCAGAATGACCCAAA

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GOGAGGCTGAGGTCACTTCATCACACACATGAACCCACCACCATGGATGACAGTGACG TCCACATGAGCTCCCTGAGGTCCGTGTGCTTCTCACCTGAAGGCTTGTATCTCGCTAC

SUBSTITUTE SHEET (RULE 26)

GCCTTCAGCCCGTGGCCCTCTCCACCCAGCAGGAAACTCTGGGCACGTCACCATCCCC

AGGCGCCTGATGTTTCTTGCCTGATCCTGGCCACAGGTCTCAACGATGGGCAGATCAA

AGGACGGGCCAGTCTGAAGGAGAAGACGCTGGACTGTGGCCAGATTGTGTGGGGGCTG

GTGAGAGATCTGAGCTTCACGCCCAGCGCAGTTTTGATTTTGGTCTCTGCATCCCGGG

ATAAGACACTTCGAATTTGGGACCTGAATAAACACGGTAAGCAGATCCAGGTGTTATC

CGGCCATCTGCAGTGGGTTTACTGCTGCTCCATCTCCCCTGACTGTAGCATGCTGTGC

TCTGCAGCTGGGGAGAAGTCGGTCTTTCTGTGGAGCATGCGGTCCTACACACTAATCC

GGAAACTAGAAGGCCACCAAAGCAGTGTTGTCTCCTGTGATTTCTCTCTGATTCAGC

CTTGCTTGTCACAGCTTCGTATGACACCAGTGTGATTATGTGGGGACCCCTACACCGGC

SATITIGGGAGGTACAGACAGGCCTCCTGCTTCTGAATCTTTCTGGCCACCAAGACGTC

GGTGGCAGATGACAGGCTGCTCAGGATCTGGGCTCTGGAACTGAAGGCTCCGGTTGCC

TTTGCTCCGATGACCAATGGTCTTTGCTGCACGTTCTTCCCACACGGTGGAATTATTG

CCACAGGGACGAGATGGCCATGTCCAGTTCTGGACAGCTCCCCGGGTCCTGTCCTC

ACTGAAGCACTTATGCAGGAAAGCCCTCCGAAGTTTCCTGACAACGTATCAAGTCCTA

GCACTGCCAATCCCCAAGAAGATGAAAGAGTTCCTCACATACAGGACTTTCTAGcagt

FIG 23A[I] agcottogtcagtctagttgtgttgaagccaagtgcagttgtgggatgttgctgggggta gccggctccccacctcctgcagcagcagtacaaggaactggctaggatggagtc aggcagctcacactggaccagtgtggaccttccttcctcccatggcatgtgcaagtag gtetgegtgaceccaettetgtggtgeeggeettacetegtetteateegtggtgage ataaaggcaagcgggctccagagcctctctggtggcggccaagccactcccttaac ggtttgaagttcctccgttgtggtcagaagaactctggtgtttggttccctgctcagc tcagcacatagtaaaggtacaactgtgttttctcaattgtctcgaaaaaaagagttct tgogogtggactgggctgagctcctcaccatacactagtgccggcttttgtttcctgt aaacagtggttgcatgtgtagagagagtaacaagcgagtattcagatcatacgaggagg taagtggcccagttgtggagccaagtctaagtcgtgtggagtcagtgctgacatcact ggottgtgctgtctgtcacatgtgttttgtctctgctgcttgacctcatgggatgtacc

SUBSTITUTE SHEET (RULE 26)

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FIG 23A(II

MEAGEEPLLLAELKPGRPHQFDWKSSCETWSVAFSPDGSWFAWSQGHCVVKLVPWPLE EQFIPKGFEAKSRSSKNDPKGRGSLKEKTLDCGQIVWGLAFSPWPSPPSRKLWARHHP QAPDVSCLILATGLNDGQIKIWEVQTGLLLLNLSGHQDVVRDLSFTPSGSLILVSASR RKLEGHQSSVVSCDFSPDSALLVTASYDTSVIMMDPYTGARLRSLHHTQLEPTMDDSD DKTLRIWDLNKHGKQIQVLSGHLQWVYCCSISPDCSMLCSAAGEKSVFLWSMRSYTLI VHMSSLRSVCFSPEGLYLATVADDRLLRIWALELKAPVAFAPMTNGLCCTFFPHGGII ATGTRDGHVQFWTAPRVLSSLKHLCRKALRSFLTTYQVLALPIPKKMKEFLTYRTF\*

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FIG 24(I)

FIG 24(II)

FIG 24(III)

FIG 24(I)

TACTGCTGTTCCATCTCCCCAGACTGCAGCATGCTGTGCTCTGCAGCTGGAGAGT CGGTCTTTCTATGGAGCATGAGGTCCTACACGTTAATTCGGAAGCTAGAGGGCCATCA AAGCAGTGTTGTCTCTTGTGACTTCTCCCCCGACTCTGCCCTGCTTGTCACGGCTTCT TACGATACCAATGTGATTATGTGGGACCCCTACACCGGCGAAAGGCTGAGGTCACTCC ACCACACCCAGGTTGACCCCCCATGGATGACAGTGACGTCCACATTAGCTCACTGAG CTCAGGATICTGGGCCCTGGAACTGAAAACTCCCATTGCATTTGCTCCTATGACCAATG GGCTTTGCTGGCACATTTTTCCACATGGTGGAGTCATTGCCACAGGGACAAGAGATG ATCTGTGTGTGCTTCTCTCCAGAAGGCTTGTACCTTGCCACGGTGGCAGATGACAGACTC 

n6.1

GACACTGCATCGTCAAACTGATCCCCTGGCCGTTGGAGGAGCAGTTCATCCCTAAAGG

GTTTGAAGCCAAAAGCCGAAGTAGCAAAAATGAGACGAAAAGGGCGGGGCAGCCCAAAA

GAGAAGACGCTGGACTGTGGTCAGATTGTCTGGGGGCTGGCCTTCAGCCTGTGNCTTT

CCCCACCCAGCAGGAAGCTCTGGGCACGCCACCACCCCAAGTGCCCGATGTCTCTTG

CCTGGTTCTTGCTACGGGACTCAACGATGGGCAGATCAAGATCTGGGAGGTGCAGACA

GGCTCCTGCTTTTGAATCTTTCCGGCCACCAAGATGTCGTGAGAGATCTGAGCTTCA

CACCCAGTGGCAGTTTTGATTTTGGTCTCCGCGTCACGGGATAAGACTCTTCGCATCTG

SGACCTGAATAAACACGGTAAACAGATTCAAGTGTTATCGGGCCCACCTGCAGTGGTTT

GAAAGCCCTTCGAAGTTTCCTAACAACTTACCAAGTCCTAGCACTGCCAATCCCCAAG TTTGTAGCAGGGTAAATCGTCCTGTCAAAGGGAGTTGCTGGAATAATGGGCCAAACAT CTGGTCTTGCATTGAAATAGCATTTCTTTGGGATTGTGAATAGAATGTAGCAAAACCA AAAATGAAAGAGTTCCTCACATACAGGACTTTTTAAGCAACACCACATCTTGTGCTTC GATTCCAGTGTACTAGTCATGGATTTTTC

FIG 24(II)

ACCATGGTTCCAAGWTCCTCTCTCTGTGGTCMRAAGTTGCYYCCGAATGTTGGGC CCAAGTGCCTTTTCYCTCCTTGGGCCTCCCTTCTGACCTGCAGGACAGTTTTCCCYGG AGCCCATTTGGTATGAGGTATTAAWTTAGCCTTAACTAAATTACAGGGGACTCAGAGG TIGIDALTITICICAACAGAIGITAAGGIDACAACIGIGITITITICICGATITATICIAAAAAC **ATGTGCAGGAAATGACAAATTTGTATGTCAGATTATACAAGGATGTATTCTTAAACCG** CATGACTATTCAGATGGCTACTGAGTTATCAGTGGCCATTTATTAGCATCATATTAT CATAGTACTTAAATTGAAAAAAAAA

FIG 24(II

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FIG 26A(I)

FIG 26A(II)

FIG 26A

GGCACGAGGCGGGGTCAGGGCGGGGGGTGAGGACCAAGTAGGCATGGCGGAGGGCGGG

TGGTAGAGTTTGGAGCCAACCTGAACCTGGTGAAGTGGGAATCCCTGGGCCCCAGAGGC ACCGGCCCCGATGGACGGGCCGGCCCGGGACCCGCAGGTCCTAATCTGAAGGAGTGGC TGAGGGAGCAGTTCTGTGACCATCCACTGGAGCACTGTGACGATACAAGACTCCATGA TGCAGCCTATGTAGGGGACCTCCAGACCCTCAGGAACCTACTGCAAGAGGAGAGCTAC SGCCGAGGTGGACCTGGTGGATGTCAAGGGGCAGACTGCCCTGTATGTGGCTGTAGTG **AACGGGCACTTGGAGAGCACTGAGATCCTTTTGGAAGCTGGTGCTGATCCCAACGGCA** SCCGGCACCACCGCAGCACTCCTGTACCATGCCTyTCGTGTGGGTAGGGACGACAT SACACCCGGCCCCTTTTTCACGGCGGCTAACCTTCCTTGGTGGTCTGTCCTCTATACA CCTGAAGGCTCTTATCAGGTATGGGGCAGATGTTGATGTCAACCATCATCTGAATTCT **PCAGTGCTGCCTACCATAACCTTCAGTGCTTCAGGCTGCTCTTGCAGGCTGGGGCAAA** TCCTGACTTCAATTGCAATGGCCCTGTCAACACCCAGGAGTTCTACAGGGGATCCCCT GGGTGTGTCATGGATGCTGTCCTGCGCCATGGCTGTGAAGCAGCCTTCGTGAGTCTGT AAGAGGCAGAAGAAGATGGATCCTGAGGCCTTGCAGGTCTTTAAAGAGGCCCAGAAGT ATTCCCAGGACCTTGCTGAGTTTGTGCCGGGTGGCTGTGAGAAGAGGCTCTTGGCAAAT ACCGACTICCATICTIGGTTTCCCTCGCTGCCTGCCAGACCCCATAAAGAAGTTTTTGCT TTATGAGTAGcattcacatgcagtgctgactgcaatgtggaagccgatcacctgcagt

gaaaactgacacagactctggcatcctgggaaccatggcctgtgctgccagcttgatc

cttggctgtcagtgaagaaaaacggctgtgttctctttggactgtgattctatctcag

gtgettgggeeategaacgeteettgagteattgteaactgaggeacataeaaet

tgggctgagcctggtgattgccctagtggggaaggctttttttctccaggctatgcatc

taattttgttcctcttcagtctctctgttttggattcttcctggcaatgtgtgcagca

tatttatgttcctactttgcaatttattgttcttttaaggcttgatatcaaaacagaa

agaggtttgttaagaaaagatatagggagaaaggaattccggttccgtgcacttgcta

geetgettteettgeetgggtttgtetgtetatgetgettggtgeacateettetet

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FIG 26A (II) gtgttccactaaraccagratatcctagtttttttgggttgactgttccctccccactt ttgctgccactgttctattttgggagttgtcttccgtctaagatggcttctgggggttc gggttttctgatgtcttaccctggggatcttcagacagtggttacctttaggagaccc acctggaactaaccattaagtgactgcccacattcagatcagggaccatcttaatagt actcactgccagtcctcacaagagaagatgacacgggtgctctcttcagacactccca tacaggaagttggaaaatgtcttggtcacctgggttgttcccaggctacaacttcttg tocttgaancccaatgcccntttgtktnggttgcttccctaaaaktt

SUBSTITUTE SHEET (RULE 26)

.... ARGGVRAEAEDQVGMAEGGTGPDGRAGPGPAGPNLKEWLREQFCDHPLEHCDDT RLHDAAYVGDLQTLRNLLQEESYRSRINEKSVWCCGWLPCTPLRIAATAGHGNCVDFL IRKGAEVDLVDVKGQTALYVAVVNGHLESTEILLEAGADPNGSRHHRSTPVYHAXRVG RDD1LKALIRYGADVDVNHHLNSDTRPPFSRRLTSLVVCPLYISAAYHNLQCFRLLLQ GPEARGRRKMDPEALQVFKEARSIPRTLLSLCRVAVRRALGKYRLHLVPSLPLPDPIK AGANPDFNCNGPVNTQEFYRGSPGCVMDAVLRHGCEAAFVSLLVEFGANLNLVKWESL KFLLYE\*

FIG 26E

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FIG 27(I)

FIG 27(II)

GCATCCATGGCGGAGGCGGCAGCACGACGGGCGGGCAGGGCCGGGCTCCGCAGGTCG TAATCTGAAGGAGTGGCTGAGGGAGCAATTTTGTGATCATCCGCTGGAGCACTGTGAG GACACGAGGCTCCATGATGCAGCTTACGTCGGGGACCTCCAGACCCTCAGGAGCCTAT TICCICATCCGGAAGGGGGCCGAGGIGGAICTGGIGGACGIAAAAGGACAGACGGCCC TGTATGTGGCTGTGAACGGGCACCTAGAGAGTACCCAGATCCTTCTCGAAGCTGG GCTCCCCTGCACACCGTTGCGAATCGCGGCCACTGCAGGCCATGGGAGCTGTGTGGAC CGCGGACCCCAAC

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h7.2

GAGGAAGAAGAAGTGGACCCTGAGGCCTTGCAGGTCTTTAAAGAGGCCAGAAGTGT ATGAGTAGACTCCAAGTGCTGCGGTTGATTCCAGTGAGGGAGAAAGTGATCTGCAGGG AGGTGGACACCGAGCCCTGAGTGCTGTGCTGCTGGTCTCCTGATGGCTGTTGCTG CICTGITCIGGAUTITCAGUIGCAUATIAATGIAACGGGCCATGGGGTAIGTACATGT AGGGGCTGAGGTTGGAGGCCTACTAATTTCCTGTAGGGAAGACTCCCAGCACTTCTGG CGGCTTCATCTGATTCCTTCGCTGCCTCTGCCAGACCCCATAAAGAAGTTTCTACTCC CAGAAGATGTCCTCGTAGACTGTCATTGCTCCTCAGGTGCCTGGGCCGCTGAACAGTC CTTGGGTCATTGTCAGCTGAGAGGCTTATACTAAAGTTATTATTGTTTTTCCCAAGTT aactgtgcttcttctttatttttctacttctcaatttgatgcttct AGTATCTCAATGAAAA

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		m8.1	

CCGCAGTCACCTGGAGGGCTGTCTGCCCCCATGCACTACCGCGCCTTCCCCTGCCACCG TCAATCCCCAAAGGATGCTGAGGCCACCACCAACCGCTGTTTTCAACTGTGCCGCTTG CTGCTGTCTGTGGGGCAGATGCTGATGAATACATACCGTGTGTAGTTCAGCTTCCTGAG GAGGCCAAGGGCTTGGTGCCACCAGAGATTCTACAGAAGTACCATGGATTCTACTCTT CCCTCTTTGCCTTGGTGAGGCAGCCCAGGTCGCTGCAGCATCTCTGCGCGTTGTGCGCT CGCATGCTCCGCTTTCTGCAGCTGGACTTTGAGGATCTGCTCTACTAGGCttgctgcc caaggeggtetgtetteaagteaggagtggaegeettgateeacttgagagaagag gccagatcagcaccyggctggtagtgatngcagagggcacctgtgcagatctgtgtgc gcactggaaatctctaggctgaaggcyagagcaaatggtgcargtgttagtccttggg angagagacaganggtgagaaagcaagacagaggtgagagtgcacatgtcaagtggta gattgccttaaaagaaagctaaaaaaaaaaaaagattcgggcgaacttctttaggggt aatgetgeagegtgttaaaactgactgaccagegtecatatetttggaceetteeeggg tgaaaaagccccttcatcctccagcgctccccaagggtgcttagcaataccgggtgct tttctgccgcaaagtgagttaccaaa

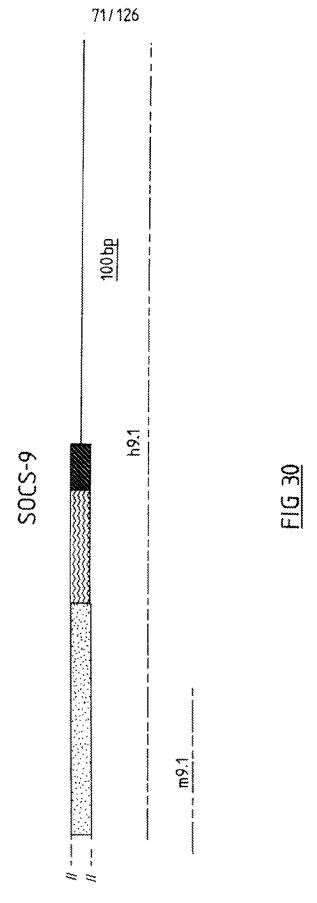
FIG 29A

LPEEAKGLVPPEILOKYHGFYSSLFALVROPRSLOHLCRCALRSHLEGCLPHALPRLE .... MSAILKVGHHCWLPVTSAVNPQRMLRPPPTAVFNCAACCCLWGQMLMNTYRVVQ

LPPRMLRFLQLDFEDLLY\*

FIG 29B

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TCAACAAATTGTTCACTGATGAATCCACAAGGATCTCTGGGCCTACAACCAGGTCCTG CACCTCCATGGGAGAAGACGTATCCAGGCAGCAGCTGCGCGCCCTTCAAGAGGGCAC ATCCCGTCATCTAAAGGCACGGTGTACTGAAGGTAGTCCTGAGACATGAGTCCGATTA CTACAGGCACGTGTTCCTCCAGGTGGAGGCTCAGGTCCCCGGGTGAGCTGGGGCTGCA SCGGGACTCAGGGCGCGCGCTCTGGCTGCAGGTCTCGCAGCTCCCTGGGCTGTAGCTCC GTGGGGGCGTCATCATGACCTCCTCTAGGGCTCTGCAACATGACTCCTGTGGTGCAAA GTCCACATGACTGTCGTCTTCGGAGAAGGCACCACTCGCCCCCCGGCAGGTACGGCTGA CGCAGATICCTTGCGCACACCGTTGACTGGT

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FIG 32(I)

FIG 32(II)

FIG 32(III)

CACACCTCTAAAAACCTCAAGACTTCCCTTTTTTAAAGAACCAAAATAAACCAAGACA CCTTGCTGACACTTCCCCACCCCTAAACAACTGATGATGACTCTTTTTACACATAAAACTG AAATAGTTAGGCAGCAAAAGATTTTGATGGCAATGAAAGTTTGTAAACTGTATTTCA

TAGAAGATGAAAACGAAGGCAACAGAAAAATTCAAACTTTCACAAACCAAAAGAATTAG AGATTAAAAAACTCATCTTCAGTGTATATGTAAATTCCGTGGTTTTTATCACAGGTAT TATTCAAATCAATTTAAAACTTTTTTAAACATTAATGTTGCAAGAGAATCCAGTCCA TTTATGAAAATTAGTTGACAATCAAGTTCACCCAAGAAAATGTTGACTAAGGA **AGGAAGCTNATGATCATCTAATATTTCTTTTAATAATTATTCTAGTTCCATAGGTTTTC ATGTTATGCCAATTTGTACCCGAGTTTAATTTACAGAAAAGGCAACAATTTCTAAATTG** GTGGTATACATTTCTTTACAATTTTTAATGTAAGGCCATTTATAAAATAGACAAAC CACAACCTTAGAAATAATTTAGAAAAAAGTGTTGTTAAAAGATATGTTGCAGATCTCC GTTTATTCAACACTGKCTTTGGAAANTGGACCATTTAAAAGGACATGGCAATTTCCAT TCTGTTAAGTTTCAATTCAACCTTTACTTAGGGGTTGRATTACCACATGAAATGNTGCT TTGAGGAGAATTTGATAATTCACATTGTGATTATTCTGCACATTGATGAACATAATT

FIG 32(II)

CTGGTCTACCTGACTCTCATCCTCGGGGAAAGCGCGCCCTCCCACTTGAGGAAACC GCAGAGACTTCCATGGGAGAGAGCTGTCCAGACAATAGCTCCGTGATCCTTCCAAAG GATACATCCCCTCATCTAAAGGCACAGTATACTGAATGTAGTCCTGAGGCATAAGTCC

AGGGACATCCATCGTGAACCCGCTCTCCGGGGTTCTGCAACATGACTCCCGTGGTGCC

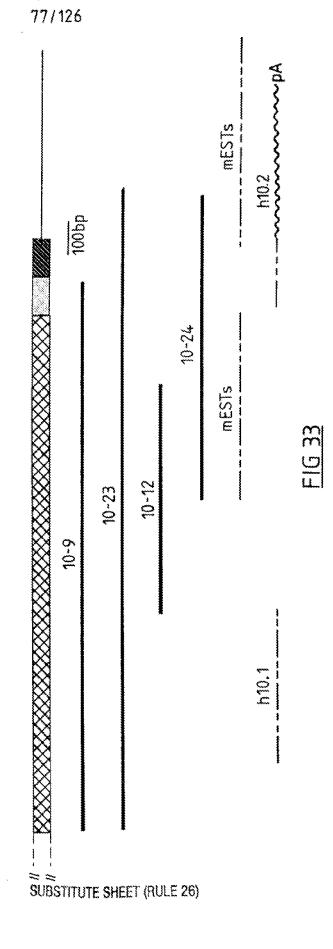
AATCAACAAGCCATTCACCGGACTGATCCACGAAGATCTCTGGGGCGACAACTAGGTC

GCTTTGCAAGTTTTCAGCTCCTCTGTAAGGCTTGTCACAACCATGGGACCACTACT TTGCACTGAGTCATAAACTCTTGCAACCCCAGGAGCAGAGTTCGGATCAAAATTCAAA ATCTCTTGTTCTTATTCCCAAAGTGCAAGATGCAGGGTTCTCAATCTTTCAGTAGTGC TTCTCCTGTAAATAATCCTTCATTTTGTTTTGGCAAAGGCAGTTTCTGAATTAAGTCTA TTCTGGTATACTGACGTATAACAAACGACACAGGTACTGCAACGAGCGCACCTSSAT GAACNCCCGRGAACACTGGSTTGGYCAAGTTCTNGACRRGGKAAGKTGCAGATTCCAG GCAGCYCAGACCTTGAATAACAAAAGCTCCCATTTTCAGAGTCCCTGATTGAATGCT CCAATTAGATCAACTATGGACGTATGTCCTTCCACATCNGGCTGTTCATAAAGCTAA ACCTACCATTTGAGTGCTCAATTCTAGTGTGAGTGTTTTTACCATGGGAGCGAAAGTC ACGITITGCIAGCITCCCTTCTGCCTCCCAACGTGTGATTGGTCCCCAGTACCATCCTT TGACAGCGCATAACTTTNCAGCCACGTGGGGCTTTCTGTSCCAGTGAGTCCACTGAAA GTTCCCCTTTTGGGATTTGGATTACCTGCATTGGAGNTAACCAATGGTGAAGATTGG

AATAACGACAGGCACATGTTCATCCAGGTGAAGATGCAGGTCTCCATTATGAGAAGCC GAGCTCTTCAGTGAATTGGCTTGCTCCTGGCACGTGGTCTCAGACTGGAGGTCGT

FIG 32(III

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FIG 34(I)

FIG 34(II)

FIG 34(III)

GGCACGAGGCTGTGTCCAGCACACAGAGGGGCCCGGCCATCTGCTTTGGTTCAGAGC

CCTGTGTGTCTGTCTGTCACTTAGACTCTTCCTCCCGGCTCGCAGCTCACCCTCCATCCT

CCTTACTGGCTCCAGCATGACTCGCTTCTTATGCAGAGTACTTTGCTCTGTTTCAC

TCTGGCTCTGCACCTTCCAGGTCCCCTTCGTCTCCCGAGAGCCCACCGGCCCGCGCAC

CCCTGGGTTCTGTTCCAAGGGGTCATGCAGAAGTATAGCAGCAACCTGTTCAAGACCTC

TTGAAGATCATGATCCAGGATGGGAAGAATCTTGCAGAGCCCAACAAGAGGAGGGCTGGC

FIG 34(I)

ATGAGCATGAAGACGTGGTAGAGTTTCTTCTCTCTCAGGGCGCCCGATGCTAACAAAGC CAACAAGGACGGCCTGCTCCCCTGCATGTTGCCTCCAAGAAGGGCCAACTATAGAATA

GCAGACATCAACACGCAGGCCAGTGACAGTGCATCAGCCCTCTACGAGGCCAGCAAGA

TGCCGCTCCACGAGGCTGCCTACTATGGCCAGCTGGGCTGCCTGAAAGTCCTGCAGCA

AGCCTACCCAGGGACCATTGACCAACGCACACTGCAGGAAGAGACAGCATTATACCTG

GCCACATGCAGAGACACCTGGATTGCCTCCTGTCGCTGCTCCAGGCGGGGGCAGAGC

CTGACATCTCTAACAAATCCAGGGAGACTCCACTTTACAAAGCCTGTGAGCGCAAGAA

CGCGGAGGCGGTGAGGATATTGGTGCGATACAACGCAGACGCCAACCACCGCTGTAAC

AGGGGCTGGACCGCACTGCACGAGTCTGTCTCCCGCAATGACCTGGAGGTCATGGAGA

TCCTAGTGAGTGGCGGCCCAAGGTGGAGGCCAAGAATGTCTACAGCATCACCCTTT

GTTTGTGGCTGCCCAGAGTGGGCAGCTGGAGGCCCTGAGGTTCCTGGCCAAGCATGGT

GTGCAGATGCTGCTGTCTGTCACCAGCCGCACGCGCGTGCGCCGTAGCGGCATCAGCC

CGCAGTTCTGCGCTCTACTTCGCTGTGGTCAACAACAATGTGTACGCCACCGAGCTGT

GCGCTTCGACGTGAACGCACCTCTGGCTCCCGAGCGCCCCGCCCTCTACGAGGACCGC

TGCTGCTGCCGGGCGCGGGACCCCAACCGCGATGTCATCAGCCCTCTGCTCGTGGCCAT

CCGCCACGGCTGCCTGCGCACCATGCAGCTGCTGTTGGACCATGGCGCCAACATCGAC

GCCTACATCGCCACTCACCCCCACCGCCTTTCCAGCCACCATCATGTTTGCCATGAAGT

SCCTGTCGTTACTCAAGTTCCTTATGGACCTCGGCTGCGATGGCGAGCCCTGCTTCTC

CTGCCTGTACGGCAACGGGCCGCACCACCCGCCCCGCGACCTGGCCGCTTCCACGACG

CACCCGTGGACGACAAGGCACCTAGCGTGGTGCAGTTCTGTGAGTTCCTGTGGGCCCC

GGAAGTGAGCCGCTGGGCGGGACCCATCATCGATGTCCTCCTGGACTATGTGGGCAAC

GTGCAGCTGTGCTCCCGGCTGAAGGAGCACATCGACAGCTTTGAGGACTGGGCTGTCA

TCAAGGAGAAGGCAGAACCITCCGAGACCITCITGGCITCACCITCITGCCGGCITGCGGGITTCG

GAAGGCCATAGGAAAATACCGGATAAAACTCCTGGACACACTGCCGCTTCCCGGCAGG

**CTAATCAGATACTTGAAATATGAGAATACACAGTAAccagcctggagagagagatgtgg** 

cettcagactgtttccgggacgccccaggtggcctgcatccaggaccccctgggggtca gaacaggtgtgaccttgctggttctttgctggagcttcacccaaagtgagaacctgat gtggggagtggacgtggaacctctgctttcacactgtcagcggatcgcagacccgctc

SUBSTITUTE SHEET (RULE 26)

aaggtggcccaggcaggaatcctggccttaagctggagaacttgtaggaatccctcac tggaccctcagctttcaggctgcgagggagacgcccagcccaagtattttatttcwcg tgacacaataacgttgtatcagaaaaaaaaaaaaacatgggcgcagcttattccttag tagggtatttacttgcatgcngcgcttaaagcntactggaaacatgcgttccnactat tggnttgcccctttggcgttccgcgggtttgntccgacngtaattgaccccgtgtttt gottgagaatcoccttgcactggtaaacgagagccgacgtgcttcaaggttggatttt gtcactttcgagtgttccgactattggggggcttttggttgtccccaaaattgtggggt ggtgtgcggacgccacgagaagtggttcatgggcgataatcattactgngagaatgta gagoggoggtttacgaataaatattttttaagoogoottoocaaaa

FIG 34(II

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FIG 35 (I)

FIG 35 (II)

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CCTCCTGAGAGTTCGCCGGCCCGGGCCCAATGGGNTTGTTCCAAGGGGGTCATGCAGAA ATACAGCAGCAGCTTGTTCAAGACCTCCCAGCTGGCGCCTGCGGACCCCTTGATAAAG GGTGGGCTGCCTGAAAGTCCTGCAGCGAGCGTACCCAGGGGACCATCGACCAGCGCACC TGTCACTGCTCCAAGCAGGGGCAGAGCGGGACATCTCCAACAAATCCCGAGAGANACC GCTCTACAAAGCCTGTGAGCGCAAGAACGCGGAAGCCGTGAAGATTCTTGGTGCAGCA GCCATCAAGGATGnCGATGAAGAGGCCTTGAAGACCATGATCAAGGAAGGAAGAATC TOGCAGAGCCCAACAAGGAGGGCTGGCTGCCGCTGCACGAGGCCGCATACTATGGCCA CTGCAGGAGGAAACAGCCGTTTACTTGGCAACGTGCAGGGGCCACCTGGACTGTCTCC CAACGCAGACACCAACGCTGCAACCGGGCTG

FIG 35(1

h10.2

GTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCCGTCAT CAAGGAGAAGGCAGAACCTCCAAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTCGAA ATTAGATACCTGAAATACGAGAACACCCAGTAACTGGGGCCACGGGGAGAGAAGGAGTAG CCCCTCAGACTCTTCTTACTAAGTCTCAGGACGTCGGTGTTCCCAACTCCAAGGGGACC TGGTGACAGAGGCTGCAGGCTGCCTCCCTCTCAGCCTGGACAGCTACCAGGATCTC ACTGGGTCTCAGGGCCCAGAGCTTTGGCCAGAGCAGAACAGAATGTGTGTCAAGGAGAA GAATCATTTGTTTACAAACTGATGAGCAGATCCCAGACCTTCTCTACCTTCAGGAATGG TCAGAGCCTTCCCTGTGCCCCTTCCACTTGTTCTGGAAAACTCACCACTTGACTTCAGAG CTTTCTCTCCAAAGACTAAGATGAAGACGTGGCCCAAGGTAGGGGGGGTAGGGGGGAGCCTG CAGAAACCTCTATTCCTGGGGCCAGGGCAGAGCTTGAGGTGTTCTGGGGAAGGTGGTGC 

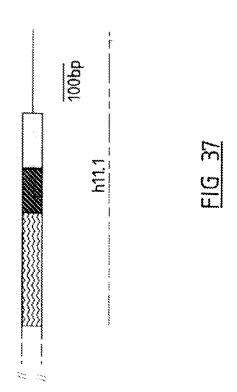
FIG 35 (II)

A A A GITTCT A CTATGATCCT CAGGA A GAGGTATA TACCTGTCT CTAA A GGAAGCGCAGCGT CGATTCAGCAATGTCAAATCCCTCCAGCACCTTTGCAGATTCCGGATACGACAGCTCG PCAGGATAGATCACATCCCCAGATCTCCCCACTGCCTAAACCTCTGATCTCTTATATATCCG CAGTITICCAAACAGAAGCAAGGIGGAACCCITCCACGIAGCGAGGGGCICCCIGCIG 3TCACCACCAAGGGCATTTGGTTGCCAAGCTCCAGCTTTGAagaaccaaattaagcta ccatgaaaagaaggaaaagtgagggaacaggaaggttgggattctctgtgcagaga ctttggttccccacgcaagccctggggcttggaagaagcacatgaccgtactctgcgt TTGGAGAAGTGTGGTTTGGGGGCCCAATGAATTGGGAAGATGCAGAGATGAAGC AGAGGAACCTTCAGCCTGTGTGTCATCCCAAGTTTGAGGACCGCTGTCAATCTGTTG TGAAAGGGAAACCAGATGGTTCTTTCCTGGTACGAGACAGTTCTGATCCTCGTTACAT CCTGAGCCTCAGTTTCCGATCACAGGGTATCACCCACCACACTAGAATGGAGCACTAC TAGAGTTTAATTAAGAGCCATTATGCACTCCAAGAATGGAAAGTTTCTCTATTTCTT AAGATCCAGGGTTCCAGGACTGCCACCAACTCCTGTCCAGCTGCTCTATCCAGTGTCC ggggctccacctcaccccaccctgggcatcttaggactggagggctccttggaaa actggaagaagtctcaacactgtttctttca

FIG 36A

.... LEKCGWYWGPMNWEDAEMKLKGKPDGSFLVRDSSDPRYILSLSFRSQGITHHTR YPVSRFSN<u>VKSLOHLCRFRIROLVRIDHIPDLPLPKPLISYI</u>RKFYYYDPQEEVYLSL MEHYRGTFSLWCHPKFEDRCQSVVEFIKRAIMHSKNGKFLYFLRSRVPGLPPTPVQLL KEAQRQFPNRSKRWNPPRSEGLPAGHHQGHLVAKLQL\*

FIG 36B



TITGCICTATGAAGAGGTTTTAAGAATGAATGAGATTCTAGAACCAGCAGCTAATCAG ttatttctagtgcactttgttgtgtattatttgtttacctgaccattttctactttat GTTCCAAGCCTAACCCATCTTTGTCGTTTTGGAAATTCGGGCCAGTCTAAAAGCAGAGC ACCTTCACTCTGACATTTTCATCCATCAGTTGCCACTTCCCAGAAGTCTGCAGAACTA agacggettgtgtgaetgtttggatttggtgatcaaatgtccatgtttacagttgett tteceagtttgtgtettteceaatattgtgaacettateeatettgeettaeteagtt GATGGAGAAACCAGCAAGGCCACCTGAcacaggtcctttaattctgtttagtcacaaa 

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FIG 40 (I)

FIG 40 (II)

FIG 40 (III)

h12.1

CATTICGGIGIAGAAGIGGCAGCACGCAGACTGGICAAACAAAIGGATTITACAGAG GGGGATCGAAAGCGGGGGCTTCTGGGACGCAGCTCTGGAGACGCGGCCTCGGACCAGC GCTTACGCGGACACGTGCTCTACAGTTGGACTTGCTGCCAGGGAAGGCAATGTTAAAG TCTTAAGGAAACTGCTCAAAAAGGGCCGAAGTGTGTCGATGTTGCTGATAACAGGGGATG AATGCAGATTCATCTGAAAACTACATTAAGATGAAGACCTTTGAAGGTTTCTGTGCTT TGCATCTCGCTGCAAGTCAAGGACATTGGAAAATCGTACAGATTCTTTTAGAAGCTGG CCCATTCTATGTGTGGATGGAACTCCTTGCACCAGGCTTCTTTTCAGGAAAATGCTGA ATCACACCTTTTATTTGTGGCTGCTCAGTATGGCCAAGCTAGAAAGCTTTGAAGCATAC GATGCCAATTCATGAAGCAGCTTATCACAACTCTGTAGAATGTTTGCAAATGTTAATT GGCAGATCCTAATGCAACTACTTTAGAAGAAACGACACCATTGTTTTTAGCTGTTTGAA <u>AATGGACAGATAGATGTGTTAAGGCTGTTGCTTCAACACGGAGCAAATGTTAATGGAT</u> GATCATAAAATTGCTTCTTAGAAAAGGAGCAAACAAGGAATGCCAGGATGACTTTGGA TTATTTCATCCGGGTGCAAATGTCAATTGTCAAGCCTTGGACAAAGCTACC

FIG 40 (I)

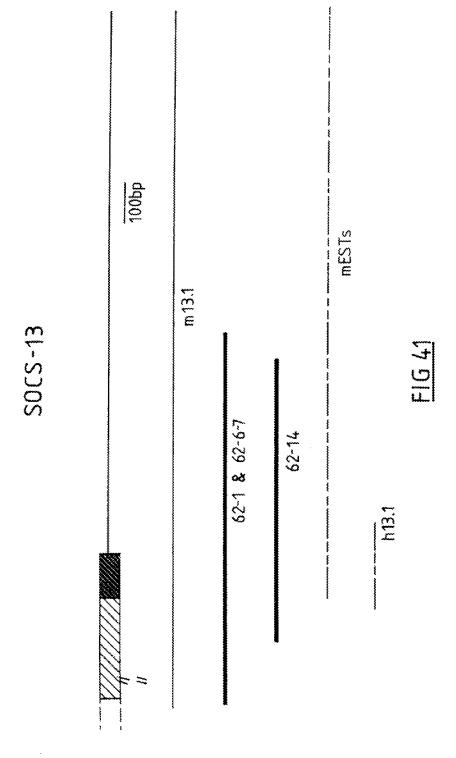
h12.2

CACAAATGGGACCATACAAAAATCTTGGNACTTGTTAATAACCACTTNACTAACCGGG **ACCTGTGTGACACTGGGNCTAAACAAAGTACTCCCTGTTTACTCAGNCAGTGTTTGGGG** GACATGAAGGATTGCCTAGNAAATATTACTCCGGAATGGTCTACAGCCCAGNACGCCC AGGCGTGCCTTGTTTTGGATTCAGTTCTCCTGTGTGCATGGCTTTCCAAAAGGAGGT GGAGCTGTRAGTTCTTTGGAATTGTGAACATTCTTTTGAAATATGGAGCCCAGATAAA TGAACTTCATTTGGCATACTGCCTGAAGTACGAGAAGTTTTCGATATTTCGCTACTTT TYGAGGAAAGGTYGCTCATYGGGACCATGGAACCATATATATGAATTTTGTAAATCATG CAATTAAAGCACAAGCAAAATATAAGGAGTGGTTGCCACATCTTCTGGTTGCTGGATT ATCTTCACTTTGGAGTTTACTAATTGGAAGACACTTGCACCAGCTGTTGAAAGGATGC TCTCTGCTCGTGCCTCAAACGCTTGGATTCTACAGCAACATATTGCCCACTGTTCCAT CCCTGACCCATCTTTGTCGTTTTGGAAATTCGGTCCAGTCTAAAATCAGAACGTCTACG GTCTGACAGTTATATTAGTCAGCTGCCACTTCCCAGAAGCCTACATAATTATTTGCTC TATGAAGACGTTCTGAGGATGTATGAAGTTCCAGAACTGGCAGCTATTCAAGATGGAT

## FIG 40 (II)

CAGATAGGTTTAGGGGGGGGCCAGTAGTTCAGTGAGAATGTTTATGTTTACAACT AGCCTTCCCAGTAAAAAAAAAAAAAAAAAAAAAAAAAA

FIG 40 (III



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FIG 42A (I)

FIG 42A (II)

FIG 42A

CGGGGGGCTGGGACCTGGGGCGTAACCGTCTACCACGACGGCAAGAACCAGCCAAG

TTCGTGGCCCTGGACATGRATGATGGGACCTTAAGTTTCATCGTGGATGGACAGTACA

CTGGGGCCACTGTGAGATCCGCATGCGCTACTTGAACGGACTTGATCCTGAGCCCCTG

CCACTCATGGACCTGTGCCGGCGTTCGGTGCGCCTAGCGCTGGGAAAAGAGCGCCTGG

GTGCCATCCCCGCTCTGCCGCTACCTGCCTCCCTCAAAGCCTACCTCCTCTACCAGTG

Atccacateceaggacegecatacgacagecatetggtgecaarteaetgagecegtt

ggggteegeegaccetgegeetgggatggaygeecaceteageeatgggeagaegtg

coccetcatectacoggetgectetgetggggggaacetatgecaacggaetteteeet

teccaacactggetgaagcagcacccaggcecttccetgaaccagatgcagagaa

taaactatgaaaacctctctcaggcgccttctgctctcaggtggagtgggctgcccc

cactetetgeagagaggetacacecetggggggteetggggaggtaagaetagta

ggaggtgccagggctgartccaaaagcaggaatggccaggamcaggccatacagatga

ageteaggatgteacataceatggaeamtgagaeaggaeceeaggttggamtteeett

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FIG 42A(I)

ctttaaacagtagcaaaggccatttatttattccacttagaaaggaaaccttggtggg tggyttecetegatgtgetttececeaectecetggaatgtgtgtgecaeaectgtee

gggccaacgagtgccagctttaatgtcagctgcmggtgctctgtgtggcctgtatttatt

ttgtcccaggccaggactgtggcacatgagctggtgtgcacagatacacgtatgtcgt cocgattettetgatattteccattggeatectecaaagetetgggeetggagggeat agaccccgccacacacccactcaagcctcagaagtggtgtgtagggcagccccaggag caagagaggeeegtgeaagteeeeatgteeeeaggteeetgettetgttgeettgggga ctcatacaccggcacacgtgtttcagcctcttgacttccatgagcttcgaatttttgcc taggacacatggaatgagtggggtctccagcccctgggaaagccactggcaaggcagg attagaaagaccaagagcagggtggggcgccatgaagcctgtatgcctctcaggctca aggaatgeetgteetageageaegtaeatggageaeeeeaeatgtgeteeageeetet ggotgtttotottgototagaatcaactooctacattgggaatgtagceatttggtag aggacttgcctagcctgcaggaagctcacgttccatcccctgcaccaaggagaatcaa agetcaggaggetgaggcaggaggattgetgtcagtggtgtacagaggteatggeeat cctgggctatattaaaccttgtcctttaagaaaaagaaaagaaatcaacttccattga atotgagttctgctcatttctgcacaggtacaatagatgacttkatttgttgaaaat gkttaatatatttacmtatatatatatttgtaagaagcatt

# FIG 42A(II)

GOYMGVAFRGLKGKKLYPVVSAVWGHCETRMRYLNGLDPEPLPLMDLCRRSVRLALGK ....GGWDLGRNRLYHDGKNQPSKTYPAFLEPDETFIVPDSFFVALDMXDGTLSFIVD ERLGAT PALPL PASLKAYLLYQ\*

F1G 421

TCGGTGCGCCTGGCCCTGGGGAGGGAGCGCCTGGGGGAGAACCANCNACCTGCCGCTG CCGGCTTCCCTCAAGGCCTACCTCTTCTACCAGTGACGTTCGCCCATCATACCGCCAGC TGCGCTACTTGAACGGACTCGATCCCGAGACNTGCCGCTCATGGATTTGTGCCGTCGC <u> AAGGGTAAAAAACTGTATCCTGTAGTGAGTGCCGTCTGGGGCCCACTGTNAGATCCGAA</u> GCGACAGCCACCTGGTGCCAACTCACTGAGCCGCCTG

FIG 4

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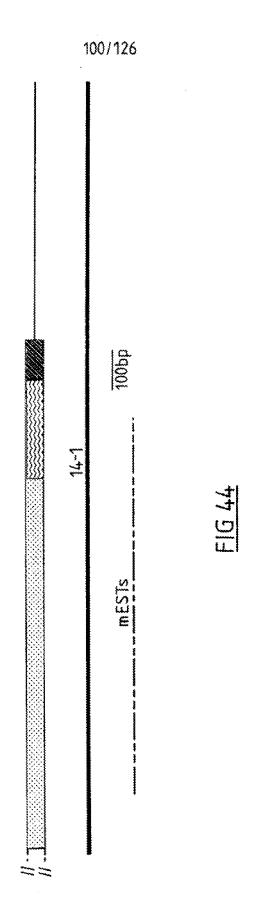


FIG 45A (I)

FIG 45A(II)

FIG 45A (III)

<u>FIG 45A</u>

.... AAGTGGCGGCGGTCCCTGGAGAGACAGGCGGAGGCAGCGCAAGTCTGACTCTGG

CGGTGGTGATGGCGGCAGGCGCTCGGACAGCTCCGCTTGAGCTGAGCTCGGAGAGATC

CGTCCAGAAAGTGCCCAGAAAAAATTCCTTAGAAAAGCTGAAAAACACARTATTT

GCTGACCGTGGAGCCGGGGGGGGCTGACAGCCAGGCCTCCGCCTGGCGGGAGCCGC

GTGGAGTGGAAAGAAGTTGTCTTGGTCCAAAAAAGAGTGAGAGTTGTTCTGAATCTGAA

SCCATAGGTACTGTTGAGAATGTTGAAATTCCTCTAAGAAGCCAAGAAAGGCAGCTTA

GCTGTTCGTCCATTGAGTTGGACTTAGATCATTCCTGTGGGCATAGATTTTAGGCCG

ATICCCTTAAACAGAAACTGCAAGATGCGGTGGGGCAGTGTTTTCCAATAAAAATTGT

AGTGGCCGACACTCTCCAGGGCTTCCTAAAAGAAAGATTCATATCAGTGAACTCA

TGTTAGATAAGTGCCCTTTCCCACCTCGCTCAGATTTAGCCTTTAGGTGGCATTTAT

TAAACGACACACTGTTCCTATGAGTCCCAACTCAGATGAATGGGTGAGTGCAGACCTG

TCTGAGAGGAAACTGAGAGATGCTCAGCTGAAACGAAGAACACAGAAGATGACATAC

ATAACACTGGAAATTGTAAAGAATTTGTTTAAAATGGCTGAAAACAATAGTAAAAATG

GACAGTGACATGGATTCAGAGGATGAAATTAAACGCTGTGCACAAGCTCCAGAAAA

CCTGTTTCTCACATACCAATGGCCAGCCTTGTGTCTCATAACTGCCAACAGTGCTTCGTG

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GGAATTAAGCCCCAGGTGGGAAATGGAAGAGGAGATCCTGCAGTTGGAGGCACCTCCTAA

GITTCCACACCCAGATCGACTACGTCCACTGCCTTGTTCCAGACCTCCTTCAGATCAGT

AACAATCCGTGCTACTGGGGTGTCATGGACAAATATGCAGCCGAAGCTCTGCTGGAAG

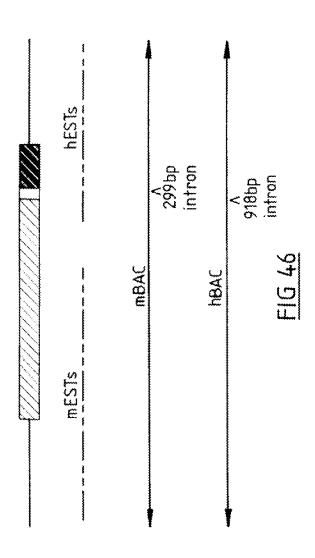
tottttgttctttcctatgtgtgaaatattttgctaatctatgctatcagtattcttg TGTTAGTTTTAGACGCTACAGTCGTTCTTCATGCTAGAATTGAGCAGTGGAATCAT ICCTGGAACACTATAAGGACCCCAGTGCCTGTATGTTCTTTGAGCCGCTCTTGTCCAC TCCCTTAATCCGGACGTTCCCCTTTTTCCTTGCAGCATATTTGCAGAACGGTTATTTGT AATTGTACGACTTACGATGGCATCGATGCCCTTCCCATTCCTTCGCCTATGAAATTGT GCAGCAGTGAtgcggagggttagaatgtcgacctgcatacatatttcatttaatat tttattttttttatgcctctttgaatttttgtacaaaggcagttgaatcaaataaaac AACTITTAGCTTTGATGCCCATGATCCTTGTGTCTTCCATTCTCCTGATATTACTGGGC ATCTGAAGGAATACCATTATAAATCAAAAGTTAGGTTACTCAGGATTGATGTGCCAGA atttttaagcaggtgtttggttttgtttttaccatataaatttacatatggtccaggc atatttacaatttcaaggcattgcatatacatttgaatattctgtattttttaaataa tatgaccgaatagttacctattctctttcatcttgaagatttcagtaaagagtgtt gtaatcaatccattataatgtaattgacttttgtaatttgccaataggagtgttaaac

aacaaaatgatttaaaatgaaacttaatgtattttcattttaaatattaactaaacca tggaggcgaatggaacctgtgctcctttcttacgggaagctttgcaaagcaaaatagc agggttacaagcttggagttgttaaggcaactagagttttctctattaatttatagac tgttgttgcacctacttagctcttttttgggaactctagttcccaggggaaatacct agtttgtttgttagttattctagccaataagaaaagagaatgtagcatcctagaggtg tatttgttctgcagtttggcaggaccgtcagttagtccaaataaacatcccctcagcg agtgaa

FIG 45A(III

VMAVVMAAGARTAPLELSSERSVQKVPRRNFLLEKLKNTXFITLEIVKNLFKMAENNS QLSCSSIELDLDHSCGHRFLGRSLKQKLQDAVGQCFPIKNCSGRHSPGLPSKRKIHIS DIPCFSHTNGQPCVITANSASCTGGHITGSMMNLVTNNSIEDSDMDSEDEIITLCTSS RKRNKPRWEMEEETLQLBAPPKFHTQIDYVHCLVPDLLQISNNPCYWGVMDKYAAEAL ... SGGGPWRAGGGSGKSDSGLTVEPGRGLTARPPPGGSRTRSGSGRASLPRLSERR KNVDVRPKTSRSRADRKDGYVWSGKKLSWSKKSESCSESEAIGTVENVEIPLRSQER ELMLDKCPFPPRSDLAFRWHFIKRHTVPMSPNSDEWVSADLSERKLRDAQLKRRNTED LEGKPEGTFLLRDSAQEDYLFSVSFRRYSRSLHARIEQWNHNFSFDAHDPCVFHSPDI TGLLEHYKDPSACMFFEPLLSTPLIRTFPFSLQHICRTVICNCTTVDGIDALPIPSPM KLYLKEYHYKSKVRLLRIDVPEQQ\*

FIG 45B



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FIG 47A(I)

<u>FIG 47A(II)</u>

FIG 47A(III)

FIG 47A(IV)

FIG 47A(V)

FIG 47A

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cacacacattcagaccttggggcaaaaacaaagcaaaataacaacaacaaaaaacactg

cctgtggaaagtccttacttcaggaaggttggcagatgaggagcaagggaacatttta

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acctccctggaactggaacttatgcacatttgtgagcttccacttgggagtgggaacc tcaggactgccacaaaggagtcttttttttaatggtttttcaagacagggtttctct gtatagecetggetgteetggageteaetttgtagaceaggetggeetegaaeteaga aattegeetgeetetgeeteetgagtgetgggattaaaggegtgeageaceatgteea actggcattttctcaattaaggttcgttcctttcagataactctaggttctgggtcaa tgaactgggtcctctgcaagagcagccgtgctcttaactgctgagccatttcagcagc ctcacatcagaattaagttaaaattagccgggtatgaatcatacccttagaatcctag catctgaaagcagagctaagagaaaacagggattcaagaccagctcttggctacagagc cogtcotgtcotaggatgggctacaagagactatttcaaagccatccaaacaacaata actacaacaacaaggttaaaattaggctgggcacagggtacacactttaatgcc aacactcaggaggcagaggcaggctgatcagtgtgagtttgagttcaacgtggtctac atgggatttttttttgggataaggtttctctgtctagccctggcatagattcactctgta

FIG 47A(II)

gactaggctagccttgaactcagagatccgcctgcctctgcctcccaagtgctgggat ggotttcgaggaggtcaaacttcaacagcaacctctccatgataatgtagctaatgatc ggagttcaggaagggtgtcaaggccgcttactgatcttagggcctcaggaatgactag tataggtgttgcaccaccactgcccagccactttgggatttttgaactgttatcaaga aaacgacactcaaaacttaacccttaaagcacacatccaccagacagcgtgcccactc gtagttccattactcaggaggctgaagcaggaggatgaaggactaaggcttcagcaac ctagggagccgcagggacagtagtctcaatccctacattctcctgaacacaggagca cacacacacacacacacacagaatccaaggogatgacgtcatcaaagggttaattc tagtotgggatggggggggggtggggcacgcagctgtcaggtggctttggaaaata aagagtgtgctccacaaagcatgcgcgcttgtccacgtctggagtcgtcacttattt ttocotatotgtacttocacagaggtototgcgagctagggggacagtgaggtgcggg ttgactggattatttgtagacggtgggttctcaaggcggtaagtggtgtggcgccgc ggtetgggaggtgaegatagggttaategtecacagageeeaggggeggagegeggggg gggcgtccgcagccccgctggagccggaagcagtggctggtcaggggcgcttctagcc gtaggggcccggcgttagagccagcaaggggacggttcacggtaaggtctgagggaga gagagotoctgagaaacttggggggggggcgcacacagatagggtgaaagcagagtgatag

FIG 47A(III

gatetagetteaeteecaateeetattggatgtgatgeacaaatteagageetttggg

acctgggatggttaggggaccaagggaagaccaggctggttggcatacaccggtgaac ggatgggagtcctagggaaagatgatgcgcctaacagtcctttctgtctccacaccac tecaggggaegateeggageteaaettteaaagegaggegegeeeeageaageetgttt tgagaagttottcagcggctctcctchTGGGCCAGACGCCCTGGCAAGGGGCAGCAG CAGCACCCCTACCTCGCAGGCTCTGTACTCGGACTTCTCTCCTCCTGCGAGGGCCTTGGAG CCCTGTGGCCCAGAGCACTGATGGAGTCCGGGGGAACGGGGCTATTCGAGAGGTCTG CACGCCTGGGAGATCAGCTGGCCCCTGGAGCAAAGGGGCACACACGCCGTGGTGGGCG TGGCCACCGCCCTCGCCCCGCTGCAGGCTGACCACTATGCGGCGCTTTTGGGCCAGCAA CITCGAGGCCCCCCCAGTIATCCAGCTGGACCTCAGGGTGAGCAGCTAGTGGTGCTGCCAGAGA tacggactaggtgtgggggagatcactattggcaatggtttgggctggaaactcat ggttggagcacaggaagtaggcttcttgtcactttggcctgtcacttagatggccttg GAGCTCCTGTCTGCTCCCCCTCCTGACCTGGTTGCCCAACGGCACCACGGCTGGAACC CCAAGGATTGCTCCGAGAACATCGATGTCAAGGAAGGGGGTCTGTGTGCTTTGAGCGGCG CAGCGAGTCCTGGGGCTGGGATATTGGGCGGGGAAAATTGTATCATCACAGTAAGGGC GACTGCTGGTGGTTCTGGACATGGAGGAGGGGACTCTTGGCTACTCTATTGGGGGCAC GTACCTGGGACCAGCCTTCCGTGGACTGAAGGGGAGGACCCTCTATCCCTCTGTAAGT GCTGTTTGGGGGCCAGTGCCAGGTCCGCATCCGCTACATGGGCGAAAGAAGAGGGtgaga

TATCTGCTCTACAAATGAcccagtagtacagggtgtgtgctggcaccctaccgtggggac

totocotcagotgaggtggcggtggaaatggaggaagaaggaagggtgcctgagcagg

GGGGGACACCCGGCTGGGTCAAATATCCACTCTGCCTTTTGCCCCCTGCCATGAAGCGC

gggggctggaccccttcacctccccttctcacaggagcaagacatatagaaatgatat

aaacaccatggcagcctgggacaaagaggtttttgaagtaaaaatgagatgtattg

gagececateactgtettaaggaattatgaeaaeeeaaageteaggeeeaggtgtt

tattteeettacatgtaggatggtteacaaacacaatacaggggetttggeacegtgg

gggagggactatcccaggcctcttagggtctcatgtataccgaattcagacccgaaa

getetgaatttetgeateagacatecagtagaacttgggagtgaagetagagecaagg

ccatctaagtgacaggccaaagtgacacgaagcccacttcctgtgctccaaccatgag

FIG 47A(IV)

tttccagcccaaaccaatggaaggtgatttcacttgtcagggcccaaagggacagtca gttetaeteceteceteaetaggageeaecttggtgaeagttgattetaeeeaetgt aagtggtaaagggattggcctggtoccaaccataatagggcggtggaaacggctcagg agggtacagcgtggattaggccacaagatggggcagatgatgtcatcagaagcatgtg

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FIG 47A(V)

ADHYAALLGSNSESWGWDIGRGKLYHQSKGLEAPQYPAGPQGEQLVVPERLLVVLDME EGTLGYSIGGTYLGPAFRGLKGRTLYPSVSAVWGQCQVRIRYMGERRVEEPQSLLHLS MGQTALARGSSSTPTSQALYSDFSPPEGLEELLSAPPDLVAQRHHGWNPKDCSENID VKEGGLCFERRPVAQSTDGVRGKRGYSRGLHAWEISWPLEQRGTHAVVGVATALAPLQ RLCVRHALGDTRLGOISTLPLPPAMKRYLLYK

FIG 47B

FIG 48A (I)

FIG 48A (II)

FIG 48A(III)

FIG 48A(IV)

FIG 48A (V)

FIG 48A(VI)

FIG 48A

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taaaagtetttgtaaceteettaaggatteaetgettaateteeagtgettageacaa

atcattaaatgcgaaccagaaactcttccaaatgtgttacatctataacctcattgga

tteteaetaccaacccatgcaatagatactaatgtgatetetgtettacagaggaag

gtattcatgcccggggagtctggtcccacagctggcatgtttgccattatattatatt

tactatgtacccagctctgtgctacatgctttacctggattatttcaactgcacaaca

accetgtgaggtaactaccatcattgctcctatttacataacagaaaactacagaaa

totggggotgggcgtagtggctcatgcctgaaatcccagcactttggggagaccctgtc

totaaaaaaattttttttttggooggaogtggtggotcacacacctgtaatctcagcact

ttgggaggetaaggeaggeagateacaaggteaggagttetagaeeageetggeeaae

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cttgagcccaggaggtcaaggctgcagtgggctgtgatggcgccactgcactctagcc ggaggttacagagagccgagatcgtgccgctgcactccagcctgggcaacaagagcaa ggtgtggtagcacatgcctgtagtcccagctacttgggaggctgaggtaggaggatca

SUBSTITUTE SHEET (RULE 26)

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gtcaatccaaactggagctcaactttcagaagagaaagacgccccagcaagcctcttt

gacgageceeegecaggattetgetetteaegeeeettteteecageteeeag

GCAGCACCCCCACGCCCACAGGCCCTGTACCCTGACCTCCTGTCCCCGAGGGCTTGGA

<u>AGAGCTGCTGTCTGCACCCCCTCCTGACCTGGGGGCCCAGCGGCGCCACGGTTGGAAC</u>

cggggagtcctctagctcctcacctccATGGGCCAGACAGCTCTGGCAGGGGGCAGCA

GGCCCGTGGCCCAGAGCACTGATGGGGCCCGGGGTAAGAGGGGGCTATTCAAGGGGCCT

GCACGCCTGGGAGATCAGCTGGCCCCTAGAGCAGAGGGGCACGCATGCCGTGGTGGGC

CCCAAAGACTGTTCAGAGAACATCGAGGTCAAGGAAGGAGGGTTGTACTTTGAGCGGC

GTGGCCACGGCCTCGCCCCGCTGCAGACTGACCACTACGCGGCGCGCTGCTGGGCAGCA

ACAGCGAGTCGTGGGGCTGGGACATCGGGCGGGGGAAGCTGTACCATCAGAGCAAGGG

GCCCGGAGCCCCCAGTATCCAGCGGGAACTCAGGGTGAGCAGCTGGAGGTGCCAGAG

CCTACCTGGGGCCAGCATTCCGCGGACTGAAGGGCAGGACCCTCTATCCGGCAGTAAG

CGCTGTCTGGGGCCAGTGCCAGGTCCGCATCCGCTACCTGGGCGAAAGGAGAGGTGAG

AGACTGCTGGTTCTGGACATGGAGGGGAACTCTGGGCTACGCTATTGGGGGCA

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FIG 48A (III)

actettetgacaagaggaggggggtggacetteatecageetgeeteaaeetetgtt cagtgctgggaaaggctaggggtcttcacagctgttatttaatttaacccaacagcaa

geetggggcagacgtggggagaactttetgteectggtggcagtggtttgggatggaa

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F1G 48A (IV)

ggaggcactgctggcctagaccagctgctgaaagctggtgaggctgagccctacccc aacccaagctotgcggaaatcaacagccccagagccacttggagggaggaagaaaggg

tgaaccttcagaatggagggaggaactgcagggatgagagaattcaggagatatcaac egtgggetgtagagtggagggecatecetectcaecteagececageteceaageete gagggccttagccagctcttcaccccagctctgactagggatgtgtgaaatcttatc TTCTGCACCTGAGCCGCCTGTGTGTGCGCCACACCTGGGGGATACCCGGCTCGGCCA tagaggtgaaacaggcttgagaaagcaactttctcaagttctcttggccagtaaatgg ccctgagcaagaggtgcaaagcgttaggtactgggtttgatgtacaggtccaaaagaa ggatgggcagagccaggtacccaggctgtataccggattccctgggctctaacctgtc cctgggcaccagggaggaggagtggaggaggcagggccttaggggtggggcagcag ggaggagcetececaggaactgaetgggtecagggettggagetgetetetgeagttg tggagtcaaagcctgggccagctccaccactgtcagagccaccttggcctgttgttta igggaggcagaacttccgggtatctcaaattcccctttcagccaggtgggcacactcg aagcaggaaagcagaaaggcatctgagtaggaccccgtagtttgaggacatctggctg gtggetgeacceataettacatteccetectteteteteteceagCGGAGCCACACTCCC GGTGTCTGCCCTGCCCTTGCCCCTGCCATGAAGCGCTACCTGCTCTACCAGTGAgcc ctgtgataccacagactgtgctgaggtcttgccaccaccctccccttggggaggtgg

aagtaagaccttttctgcctctctaagaggaaaaatcactggcaccagtggacactta

tteagecatecteggagettetegtgtaetteetgggeetagaacaagaagetggeet gaacccaggagcaaatcccaccacgccttccatctctagccaaggagaagccacctt ggtgacgtttagttccaaccattatagtaagtggagaagggattggcctggtcccaac cattacagggtgaagatataaacagtaaaggaagatacagtttggatgaggccacagg aaggagcagatgacaccatcagaagcatatgcagggaaagggcagttactggggcttct ttggcattgatgatgtccacgaattcgggcttgagggaagcaccaccacaaggaagc catecacateaggetggetggecageteettgeaggttgeeceagteacagageetgg gaagggagcagaacaagggcttggtcaagaatgggatgagtctgccccatccccacct ccatgtocgagggotcagtctagtoctcageccactecaceteageegggaaceaaag ccactcacetccataaatgatacgggtgctctgagccaccgcatcagagacgttggac tcatttatatagetgeetcaaaaaggaagattatetgggeaagteeagtgaaggeaga caaaccacaagacctagtgccaggtttattccctcacatgggtggttcacatacacag cacagaggcacgggcaccatgggagagggcagcactcctgccttctgaggggatcttg agccggcgttcaaggctatgacagtctgctacgcaaaacatttttcaagtaaaata gcctcacggtgtaagaagggagagatggtttctcttctgccctcactagggcctagg

gtgtggtttctgactgagtcagagtaccagggctctgatccaagccaggccctggact ggatgcccttggacaagtcactgtctctgggttcaaggtctctgtgtgtctttgaaataa gcagggctcctgggcccggttacctgttggggtgttgcagtcttgccagtaccaatgg cccacacaggeteataggecaggacgacettgetecagtectteaegttatetgeagg ggagtacgaagaacggtggcctactgccccctagtggacattggggg

FIG 48A(VI)

MGQTALAGGSSSTPTPQALYPDLSCPEGLEELLSAPPPDLGAQRRHGWNPKDCSENIE

TOHYAALLGSNSESWGWDIGRGKLYHQSKGPGAPQYPAGTQGEQLEVPERLLVVLDME

EGTLGYAIGGTYLGPAFRGLKGRTLYPAVSAVWGQCQVRIRYLGERRAEPHSLLHLSR

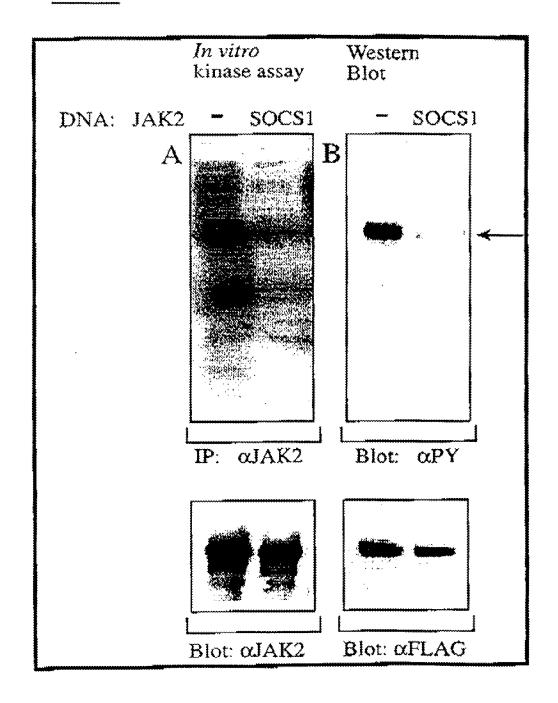
VKEGGLYFERRPVAQSTDGARGKRGYSRGLHAWEISWPLEQRGTHAVVGVATALAPLQ

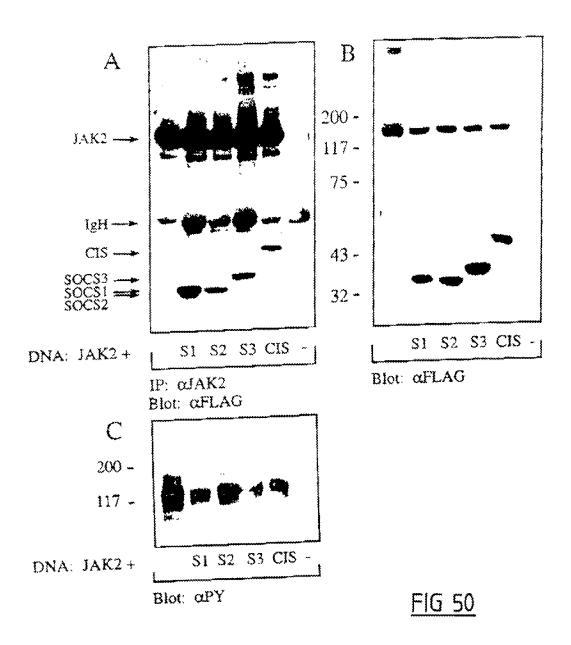
LCVRHNLGDTRIGOVSALPLPPAMKRYLLYQ

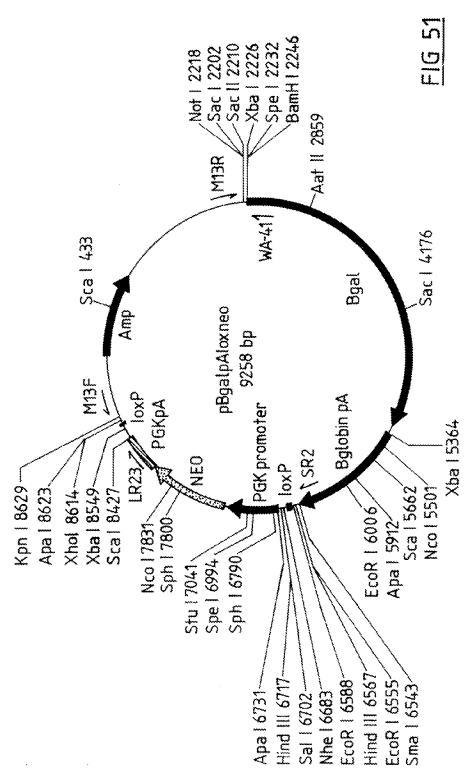
FIG 48B

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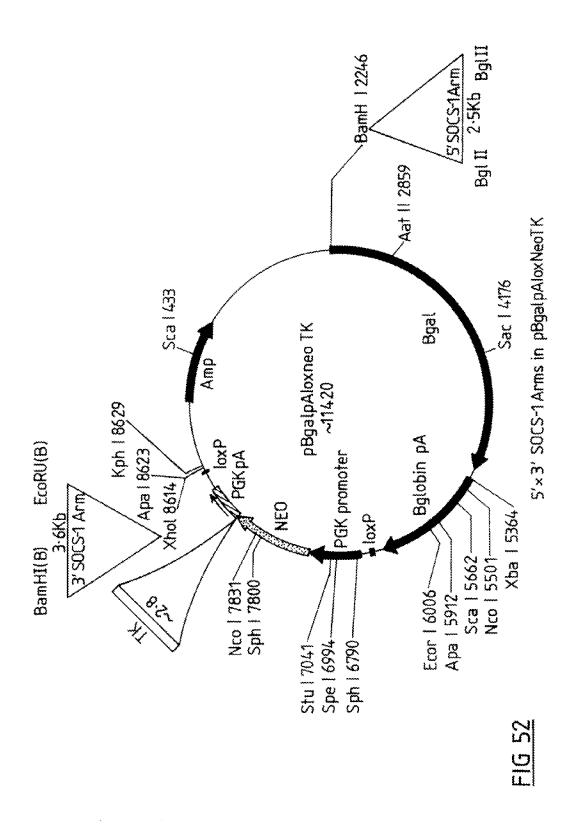
FIG 49

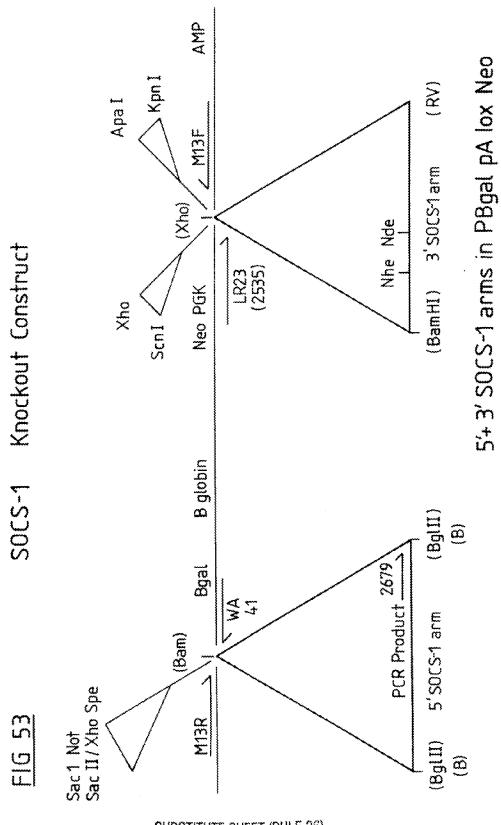






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### INTERNATIONAL SEARCH REPORT

International Application No.

PCT/AU 97/00729

A.	CLASSIFICATION OF SUBJECT MATTER						
Int Ci <sup>o</sup> :	CO7K 2/00						
According to International Patent Classification (IPC) or to both national classification and IPC							
В.	FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols)							
Documentation	searched other than minimum documentation to the ex-	tent that such documents are included in t	he fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN Peptide sub-sequence search STN [LIVMAP], [PTS], [LIVMAP], [LIVMAF YW] [CTS] [RKH], [LIVMAP] {3}[LIVMAPGC TS], {1, 50}[LIVMAP], [LIVMAP] P [LIVMAPG] [PN], {1, 50} [LIVMAP], [YF] [LIVMAP]							
C.	DOCUMENTS CONSIDERED TO BE RELEVANT	r .					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
X,P	WO 96/39427 (Trustees of Dartmouth College) 12 December 1996 The whole document	1-40					
X	Yeast vol 12 No 15 issued 1996 Delayeau, Th et al.  "Analysis of a 23 kb region on the left arm of yeast chromosome IV" pages 1587-1592  1-40						
x	Science vol 270 No 5234 issued 1995 labeit, Set of muscle ultrastructure and elasticity" pages 293-6	al "Titins: giant proteins in charge	1-40				
	Further documents are listed in the continuation of Box C	X See patent family an	nex				
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means  "P" document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family							
Date of the actual completion of the international search  Date of mailing of the international search report							
20 November	20 November 1997 12 DEC 1997						
Name and mailing address of the ISA/AU AUSTRALIAN INDUSTRIAL PROPERTY ORGANISATION PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929  K.F. PECK Telephone No.: (02) 6283 2263							

### INTERNATIONAL SEARCH REPORT

international Application No.

PCT/AU 97/00729

C (Continuat	ion) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
*	The EMBO Journal Vol 14 No 12 issued 1995 Yoshimura, A et al "A novel cytokine - inducable gene CIS encodes and SH2 - containing protein that binds to tyrosine - phosphorylated interleukin 3 and erythropoietin receptors" pages 2816-26			
х	AU, A, 27924/95 (Flügge, U.I.) 17 August 1995 The whole document, particularly pages 29-32	1-40		
x	Biochemistry vol 34 No 8 issued 1995 Weber, A et al "The 2-oxoglutarate/malate translocator of chloroplast envelope membranes:molecular cloning of a transporter containing a 12-helix motif and expression of the functional protein in yeast cells. pages 2621-7	1-40		
х	Journal of Bacteriology Vol 176 No 24 issued 1994 Iwai, A et al "Molecular cloning and expression of an isomalto-dextranase gene from Arthrobacter globiformis T6" pages 7730-4.	1-40		
x	Nucleic Acids Research Vol 122 No 11 issued 1994 Althoff, S et al "Molecular evolution of SRP cycle components functional implications" pages 1933-47	1-40		
X	Nature vol 368 No 6466 issued 1994 Wilson, R et al "2.2 Mb of contiguous nucleotide sequence from chromosome III of C elegans" pages 32-8.	1-40		
x	The EMBO Journal Vol 11 No 5 issued 1992 Labeit, S et al "Towards a molecular understanding of Titin" pages 1711-16	1-40		
x	Advances in Biophysics Vol 33 (Muscle Elastic Proteins) issued 1996 Kolmerer, B et al "A systematic search of the data bases for sequences homologous to titin/connectin" pages 3-11	1-40		
X	Microbiology Vol 142 no 8 issued 1996 Yoneyama, H "Protein C (OprC) of the outer membrane of Pseudomonas aeruginosa is a copper-regulated channel protein" pages 2137-2144.	1-40		
Х	fournal of Bacteriology Vol 178 No 15 issued 1996 Limberger, Ret al. "Organisation, transcription and expression 'of the 5' region of the fla operon of Treponema phagedenis and Treponema pallidum" pages 4628-4634.	1~40		
X	The Journal of cell biology Vol 133 No 6 issued 1996 Goodson, H. V et al "Synthetic lethality screen identifies a novel yest myosin I gene (MY05): myosin I protein are required for polarisation of the actin cytoskeleten" pages 1277-1291	<u>-40</u>		
	Genes and Development Vol 9 No 24 issued 1995 Herrscher, R.F et al "The immunoglobulin heavy-chain matrix-associating regions are bound by Bright: a B cell-specific trans-activator that describes a new DNA-binding protein family"	1.40		
Х	pages 3067-82	1-40		

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No. PCT/AU 97/00729

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Doci	ment Cited in Search Report			Patent	Family Member		
AU, A	27924/95	CA	2192849	DE	4420782	EP	765393
		HY	9603441	wo	95/34654		
							END OF ANNI
							end of Apini